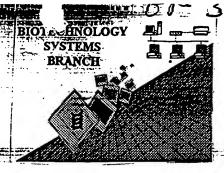
## SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable

Application Serial Number: 09/737, 476

Source:

Date Processed by STIC:

01-08-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A **NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** \*VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2Kcompliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saying time and money

> Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

## ERROR DETECTED SUGGESTED CORRECTION **SERIAL NUMBER:** ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces. The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Misaligned Amino Acid Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers. Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed. Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid Patentin ver. 2.0 "bug" sequence(s)\_ . Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>~223> sections for Artificial or Unknown sequences. Skipped Sequences Sequence(s)\_ missing. If intentional, please use the following format for each skipped sequence: (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). Skipped Sequences \_\_\_ missing. If intentional, please use the following format for each skipped sequence. (NEW/RULES) <210> sequence id number <400> sequence id number 000 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing. (NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. Use of <213>Organism Sequence(s) \_\_\_\_\_ are missing this mandatory field or its response. (NEW RULES) Use of <220>Feature are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" (NEW RULES) Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules) Patentin ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted

Instead, please use "File Manager" or any other means to copy file to floppy disk.

file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/737,476

DATE: 01/08/2001 TIME: 17:22:26

<pre>Input Set : A:\Frenken-seq.txt Output Set: N:\CRF3\01082001\1737476.raw</pre>	Does Not Comply				
3 <110> APPLICANT: Unilever plc	Does Not Comply Corrected Diskette Needed				
4 Unilever NV	ented Diskette House				
6 <120> TITLE OF INVENTION: Production of Antibodies	Corrected Diskette 14				
8 <130> FILE REFERENCE: T7060	2,3.7				
C> 10 <140> CURRENT APPLICATION NUMBER: US/09/737,476	PP FI				
C> 10 <141> CURRENT FILING DATE: 2000-12-18	//				
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12 <170> SOFTWARE: PatentIn version 3.0					
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17 <213> ORGANISM: Artificial					
19 <220> FEATURE:					
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22 <220> FEATURE:					
23 <221> NAME/KEY: CDS					
24 <222> LOCATION: (1)(417)					
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28 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly					
29 1 5 1.0 1.5					
31 tet etg aga ete tee tgt gea gee teg gga ege gee aee agt ggt eat	96				
32 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Thr Ser Gly His					
33 20 25 30					
35 gqt cac tat gqt atg ggc tgg ttc cgc cag gtt cca ggg aag gag cgt	144				
36 Gly His Tyr Gly Met Gly Trp Phe Arg Gln Val Pro Gly Lys Glu Arg					
37 35 40 45					
39 gag itt gic gca gct att agg igg agi ggi aaa gag aca igg iat aaa	192				
40 Glu Phe Val Ala Ala Ile Arg Trp Ser Gly Lys Glu Thr Trp Tyr Lys					
41. 50 55 60					
43 gae tee gtg aag yge ega tte ace ate tee aga gat aac gee aag act	240				
44 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr					
45 65 70 75 80					
47 acq git tat cig caa aig aac ago cig aaa ooi gaa gat acg goo git	288				
48 Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val					
49 85 90 95					
51 tat tat tgt god got oga oog gtd ogd gtg gat gat att tod otg oog	336				
52 Tyr Tyr Cys Ala Ala Arg Pro Val Arg Val Asp Asp Ile Ser Leu Pro					
53 100 105 110					
55 gtt ggg tit gac tac tgg ggc cag ggg acc cag gic acc gic tec tca	384				
56 Val Gly Phe Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser					
57 115 120 .125					
59 gaa caa aan ctc atc tca gaa gag gat ctg aat taataaggge taagctcgaa	437				
60 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn					
61 130 1.35					
63 ttc	440				
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/737,476

DATE: 01/08/2001 TIME: 17:22:26

Input Set : A:\Frenken-seq.txt

Output Set: N:\CRF3\01082001\I737476.raw

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Missing mandatory (220), (223) features

to explain artificial sequence. See

ty Leu Val Gln Ala Gly Gly # 12 on Error

ly Arg Ala Thr Ser Gly His

30

In Val Pro Gly Lys Glu Arg

45

Iv Live Clar ""
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68 <212> TYPE: PRT
69 <213> ORGANISM: Artificial .....
71 <400> SEQUENCE: 2
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77 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Thr Ser Gly His
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81 Gly His Tyr Gly Met Gly Trp Phe Arg Gln Val Pro Gly Lys Glu Arg
                                40
85 Glu Phe Val Ala Ala Ile Arg Trp Ser Gly Lys Glu Thr Trp Tyr Lys
                             55
89 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
                        70
                                              75
93 Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
                                          90
97 Tyr Tyr Cys Ala Ala Arg Pro Val Arg Val Asp Asp Ile Ser Leu Pro
               100
                                    105
                                                         110
101 Val Gly Phe Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
           115
                                  120
105 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
106
        130
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 11
111 <212> TYPE: PRT
112 <213> ORGANISM: Artificial
114 <220> FEATURE:
115 <223> OTHER INFORMATION: myc linker
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123 <21.1> LENGTH: 471
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial
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130 <220> FEATURE:
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132 <222> LOCATION: (1)..(459)
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136 Gln Val Gln Leu Gln Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
139 tot otg aga oto too tgt gta got tot gaa ago ago tto ago aac aat
140 Ser Leu Arg Leu Ser Cys Val Ala Ser Glu Ser Ser Phe Ser Asn Asn
                20
                                      25
143 cae atg gge tgg tae ege egg get eea ggg aac eag ege gag etg gte
                                                                              1.44
144 His Met Gly Trp Tyr Arg Arg Ala Pro Gly Asn Gln Arg Glu Leu Val
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RAW SEQUENCE LISTING DATE: 01/08/2001 PATENT APPLICATION: US/09/737,476 TIME: 17:22:26 Input Set : A:\Frenken-seq.txt Output Set: N:\CRF3\01082001\I737476.raw 145 35 40 147 gea act att agt oet ggt ggt age aca cae tat gta gae tee gtg aag 192 148 Ala Thr Tle Ser Pro Gfy Gly Ser Thr His Tyr Val Asp Ser Val Lys 50 55 6060 240 155 caa atg gac age etg aaa eea gag gac aeg gee gte tat tae tgt get 288 156 Glm Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala 157 85 90 159 gec aag ggg agg ggg etg eag get atg eag tac tyg gge eag ggg acc 336 160 Ala Lys Gly Arg Gly Leu Gln Ala Met Gln Tyr Trp Gly Gln Gly Thr 161 100 105 110 163 ctg gtc acc gtc tcc tca gcg cac cac agc gaa gac ccc agc tcc gcg 384 164 Leu Val Thr Val Ser Ser Ala His His Ser Glu Asp Pro Ser Ser Ala 165 115 120 1,25 167 gec gec cat cac cat cac cat cac ggg gec gea gaa caa aaa etc ate 432 168 Ala Ala His His His His His Gly Ala Ala Glu Gln Lys Leu Ile 169 130 135 140 169 130 135  $\nearrow$  140 171 toa gaa qag gat otg aat gyg goo goa tagtaacaat tg 471 W--> 172 Ser Glu Glu Asp Leu Asn Gly Ala Ala 173 145 150 Missing <2207, <273> See #12 176 <210> SEQ ID NO: 5 177 <211> LENGTH: 153 178 <212> TYPE: PRT 179 <213> ORGANISM: Artificial 181 <400> SEQUENCE: 5 183 Gln Val Gln Leu Gln Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly 1.84 1 5 10 187 Ser Leu Arg Leu Ser Cys Val Ala Ser Glu Ser Ser Phe Ser Asn Asn 188  $\phantom{\bigg|}20\phantom{\bigg|}25\phantom{\bigg|}$ 25 191 His Met Gly Trp Tyr Arg Arg Ala Pro Gly Asn Gln Arg Glu Leu Val 192  $\phantom{\bigg|}35\phantom{\bigg|}$  40  $\phantom{\bigg|}45\phantom{\bigg|}$ 195 Ala Thr Ile Ser Pro Gly Gly Ser Thr Ris Tyr Val Asp Ser Val Lys 196  $\phantom{-}50\phantom{0}$ 199 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu 200 65  $\phantom{\bigg|}70\phantom{\bigg|}70\phantom{\bigg|}75\phantom{\bigg|}75\phantom{\bigg|}75$ 203 Gln Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala 204 85 90 95207 Ala Lys Gly Arg Gly Leu Gln Ala Met Gln Tyr Trp Gly Gln Gly Thr 208 \$100\$211 Leu Val Thr Val Ser Ser Ala His His Ser Glu Asp Pro Ser Ser Ala 212 115 120 125 215 Ala Ala His His His His His Gly Ala Ala Glu Gln Lys Leu Tle 216  $\phantom{+}130\phantom{+}130\phantom{+}135\phantom{+}140\phantom{+}$ 

219 Ser Glu Glu Asp Leu Asn Gly Ala Ala

150

220 145

223 <210> SEQ ID NO: 6 224 <211> LENGTH: 468 RAW SEQUENCE LISTING DATE: 01/08/2001
PATENT APPLICATION: US/09/737,476 TIME: 17:22:27

Input Set : A:\Frenken-seq.txt

Output Set: N:\CRF3\01082001\1737476.raw

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    237 Glm Val Glm Leu Glm Glu Ser Gly Gly Gly Leu Val Glm Ala Gly Gly
                5
                                        10
    240 tot etg aga etc tec tgt gta gec tet gga aac ace tte agt atc ata
                                                                         96
    241 Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Asn Thr Phe Ser 11e Ile
    242 20
                                    25
                                                       3.0
    244 get atg ged tgg tad dge dag get dea ggg aag dag ege gag gtg gtd
    245 Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Val Val
           35
                                 40
    246
                                                    4.5
    248 gca agt att aat agt att ggc agc aca aat tat gca gac tee gtg aag
                                                                        192
    249 Ala Ser Ile Asn Ser Ile Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    250 50
                            55
                                                60
    252 ggg cga tte acc atc tec aga gae aac gee aag aac aca gtg tat etg
                                                                        240
    253 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
                          70
    256 caa atg age age etg aaa eet gag gae aeg gee gte tat tae tgt get
                                                                        288
    257 Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
    258
                     8.5
                                        90
                                                           95
    260 gec ggt aat ttg ctg gtt aag agg cet tac t.gg ggc cag ggg acc ctg
                                                                        336
    261 Ala Gly Asn Leu Leu Val Lys Arg Pro Tyr Trp Gly Gln Gly Thr Leu
    262 100
                                     105
    264 gtc acc gtc tcc tca gaa ccc aag aca cca aaa cca caa cca gcg gcc
                                                                        384
    265 Val. Thr Val. Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro Ala Ala
        1.15
                                1.20
                                                   125
    268 ged cat cae cat cae cat cae ggg ged gea gaa caa aaa ete ate tea
                                                                        432
    269 Ala His His His His His Gly Ala Ala Glu Gln Lys Leu Ile Ser
    270 130 1.35 / 1 272 gaa gag gat ctg aat ggg gee gea tagtaacaat tg
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W--> 273 Glu Glu Asp Leu Asn Gly Ala Ala
    274 145
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                                              Missing LZZOT, LZZ3>
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    279 <212> TYPE: PRT
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    280 <213> ORGANISM: Artificial -
    282 <400> SEQUENCE: 7
    284 Gln Val Gln Leu Gln Glu Ser Gly Gly Leu Val Gln Ala Gly Gly
    285 1 5
                                        10
    292 Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Val Val
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/737,476

DATE: 01/08/2001 TIME: 17:22:27

Input Set : A:\Frenken-seq.txt
Output Set: N:\CRF3\01082001\I737476.raw

296 297	Ala	Ser 50	Ile	Asn	Ser	11e	Gly 55	Ser	Thr	Asn	Tyr	Ala 60	Asp	Ser	Val	Lys	
300 301	-	Arg	Phe	Thr	I le	Ser 70	Arg	Asp	Asn	Ala	Ъув 75	Asn	Thr	Val.	туг	Leu 80	
304 305	Gln	Met	Ser	Ser	Leu 85	Lys	Pro	Glu	Asp	Thr 90	Ala	Val	туг	Туr	Cys 95	Ala	
308 309	Ala	Gly	Asn	Leu 100	Leu	Va.l	Lys	Arg	Pro 105	туг	Trp	G1.y	Gln	Gly 110	Th.c	Leu	
312 313	۷al	Thr	Val 115	Ser	ser	Glu	P.ro	Lys 120	Thr	Pro	Lys	Pro	Gln 125	Pro	Ala	Ala .	
316 317	Ala	His 130	His	His	His	His	His 135	Gl.y	Ala	Ala	Glu	Gln 140	Lys	Leu	Ile	Ser	
320	Glu	G1u	Asp	Leu	Asn	Gly	Ala	Ala									
321	145					150											
324	4 <210> SEQ ID NO: 8																
	<21				62												
	<212																
					Art:	ific:	ial										
	<220																
					ORMA!	PTON	: VHI	1 wi	th 1:	inke	r						
	<220																
	<22.																
					(1)	(45	50)										
	< 400																
											ggg						48
		Met	Ala	Gln		Lys	Leu	G.l n	Gln		G17	Gly	G1.y	Leu		Gln	
339					.5					10					15		
											gcc						96
	Ala	Gly	Gly		Leu	Arg	Leu	ser	-	Ala	A l.a	ser	GTA		Thr	Phe	
343				20					25					30			
											gct						144
	ser	Asn	_	Ala	Val	Gly	Trp		Arg	G,l n	Ala	Pro	_	Lys	G.Lu	Arg	
347			35					40					45				
											ggg						192
	GLu		Val.	Λla	Ala	Tle		Arg	Λsp	GIY	Gly	-	Thr	Tyr	Tyr	ALa	
351		50					55					60					
			-			_		-	-		aga						240
	•	Ser	Val	Lys	GTA	**	Phe	Ala	Val	Ser	Arg	Asp	Tyr	Ala	Glu		
355						70					75					80	200
											cct						288
	Thr	Va I.	Tyr	Leu		Met	Asn	ser	Leu		Pro	G I.u	Asp	Thr		va I.	
359					85					90					95		2.5
											cag				-		336
	туг	тұr	Cys		Thr	Arg	Ala	туг	-	GIÄ	Gln	GTA	rnr		val	Tux	
363	_4			1.00					105			L		110	~		201
											age						384
	val	ser		Ala	ніѕ	HIS	ser		Asp	PIO	ser	ser		ALd	ATG	H1S	
367			115					120					125				420
369	cac	cat	cac	cat	cac	999	gcc	gca	gaa	caa	aaa	CLC	atc	uda	gaa	gag	432

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/737,476

DATE: 01/08/2001 TIME: 17:22:28

Input Set : A:\Frenken-seq.txt

Output Set: N:\CRF3\01082001\I737476.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:172 M:361 W: Invalid Split Codon, Sequence data for SEO ID#: 4 L:273 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 6 L:374 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 8 L:475 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 10 L:1684 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 66